8900179

TO ALL TO WHOM THESE PRESENTS SHAME COME:

## Pioneer Gi-Ored International, Inc.

Talkereas, there has been presented to the

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART hereof, and the various requirements of  ${
m LAW}$  in such cases made and provided have BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

195921

In Lestimony Winercot, Thave hereunto set my hand and caused the seal of the Blant Variety Protection Office to be affixed at the City of Washington, D. C. 29th day of the year of our Lord one thousand nine bundred and ninety-one.

Kenneth

Plant Variety Protection Office ellaral Marketing Service 1 MAdigan

U.S. DEPARTMENT	OF AGRICUL	TURE		I	FORM APPR	OVED: OMB NO, 0681-006		
AGRICULTURAL MA	ARKETING SE	RVICE		į.	f a plant vari	required in order to determine ty protection certificate is t		
APPLICATION FOR PLANT VARI	ETY PROT	ECT	ON CERTIFICATE	-		U.S.C. 2421). Information itial until certificate is issue (6).		
1. NAME OF APPLICANT(S)		2.	TEMPORARY DESIGNA	TION	3. VARIETY	NAME		
Pioneer Hi-Bred International	, Inc.				959	2		
4. ADDRESS (Street and No. or R.F.D. No., City, State	te, and Zip Code	e) 5.	PHONE (Include area cod	(e)	FOR O	FFICIAL USE ONLY		
700 Capital Square					PVPO NUMB	ER		
400 Locust Street		;	319-234-0335	İ	Я	900179		
Des Moines, IA 50309	7. FAMILY N		Daniel II		IDATE	700177		
Glycine Max	Legumi				TIME (	pr.17,1989		
				,	<u> </u>	A.M P.M.		
8. KIND NAME			E OF DETERMINATIO	7	13	NT FOR ELLING		
Soybean		0ct	ober, 1984		DATE	<u> </u>		
		Jar	uary, 1987(inc	rease		ypr.17,1989		
10. IF THE APPLICANT NAMED IS NOT A "PERSOI partnership, association, etc.)	M OF	RGANIZATION (Corpo	ration,	S REC	T FOR CEATIFICATE			
Corporation			•	DA CE				
· · · · · · · · · · · · · · · · · · ·	<u> </u>		73	4.11,1991				
11. IF INCORPORATED, GIVE STATE OF INCORPORATION  IOWA						12. DATE OF INCORPORATION 1926		
13. NAME AND ADDRESS OF APPLICANT REPRES	ENTATIVE(S)	IF AN	Y, TO SERVE IN THIS	APPLICA		RECEIVE ALL PAPERS		
Clark W. Jennings			Mary Helen Mi					
3261 West Airline Highway			700 Capital S	quare	- 400 l	Locust Street		
Waterloo, IA 50703-9610			Des Moines, I		0309			
	· · · · · · · · · · · · · · · · · · ·		PHONE (Incl	uge area	code):			
14. CHECK APPROPRIATE BOX FOR EACH ATTAC  a. X Exhibit A, Origin and Breeding History of				tv Prote	ction Act 1			
b.  Exhibit B, Novelty Statement.	the variety (se	e gee,	ion 32 of the 1 min varie	, 1.0.0				
c. X Exhibit C, Objective Description of Variety	(Request for	n from	Plant Variety Protection	n Office.	)			
d. Exhibit D, Additional Description of Varie	•				•			
e. X Exhibit E, Statement of the Basis of Applic	*	ip.						
15. DOES THE APPLICANT(S) SPECIFY THAT SEED SEED? (See Section 83(a) of the Plant Variety Prof		RIETY	BE SOLD BY VARIETY  Yes (If "Yes," a			. 🙃		
16. DOES THE APPLICANT(S) SPECIFY THAT THIS LIMITED AS TO NUMBER OF GENERATIONS?	VARIETY BE		17. IF "YES" TO ITEN BEYOND BREEDE	1 16, WH R SEED?	CH CLASSE	S OF PRODUCTION		
Yes X No			Foundation		Registered	Certified		
18. DID THE APPLICANT(S) PREVIOUSLY FILE P	OR PROTECT	TION	OF THE VARIETY IN T	HE U.S.	,	Yes (If "Yes," give date)		
					L			
					<u>[X</u>	No .		
19. HAS THE VARIETY BEEN RELEASED, OFFERI	ED FOR SALE	, OH N	MARKETED IN THE U.	S, OH O	HER COOK	Yes (If "Yes," give name:		
					<u>.</u>	of countries and dates)		
					(X	No		
20. The applicant(s) declare(s) that a viable sample plenished upon request in accordance with suc				ished w	ith the appl	ication and will be re-		
The undersigned applicant(s) is (are) the owne distinct, uniform, and stable as required in Sec Variety Protection Act.	r(s) of this se tion 41, and	xually is enti	reproduced novel plant tled to protection und	nt variet er the p	y, and belie rovisions of	ve(s) that the variety is Section 42 of the Plant		
Applicant(s) is (are) informed that false repres	entation here	in can	jeopardize protection	and res	ult in penal	ties.		
SIGNATURE OF APPLICANT					DATE			
Clark / Venne	9				( m	il 6, 1989		
SIGNATURE OF APPLICANT					DATE	<del> </del>		
<u> </u>								

FORM LS-470 (3-86) Attachment: 9592 Soybean (April, 1989)

Exhibit A:

Variety 9592 evolved from a cross of 9561 x(9561 x A5618). It was advanced to the F4 generation by modified single-seed descent. The F5 plant row of 9592 was grown in Mississippi during the summer of 1984. Subsequently, 9592 has undergone four years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation with no evidence of variants.

Four acres of 9592 (breeder's seed) were grown in 1987 and sixty-seven acres of parent seedstock (foundation seed equivalent) were grown in 1988.

Exhibit B:

Variety 9592 is most similar to the varieties A5980 and Bedford. However, 9592 differs from A5980 in flower color; 9592 has white flowers, whereas A5980 has purple. In comparison to Bedford, 9592 is susceptible to soybean cyst nematode races 3 and 4; whereas Bedford is resistant.

Exhibit E:

Pioneer Hi-Bred International, Inc. is the sole, original, and first breeder of soybean variety 9592, for which it solicits a certificate of protection.

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

# OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

Pioneer Hi-Bred International , Inc.  Address (Street and Ma, or N.F.D. No., City, State, and Zip Code) 700 Capital Square 400 Locust Street Des Moines, IA 50309  Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 3).  1. SEED SHAPE:  2			VARIETY NAME
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code) 700 Capit 1al Square 400 Locust Street Des Moines, IA 50309  Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 9).  1. SEED SHAFE: 2	NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	
700 Capital Square 400 Locust Street Des Molnes, IA 50309  Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 9).  1. SEED SHAPE:  2	Pioneer Hi-Bred International, Inc.		9592
### ADD Locust Street ### Des Moines, IA 50309  Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 9).  1. SEED SHAPE:		<i>)</i>	<u> </u>
Des Moines, IA 50309  Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 9).  1. SEED SHAPE:  2		•	
Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 9).  1. SEED SHAPE:  2			8900179
in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g., 0 9).  1. SEED SHAPE:  2		iety in the features described	below. When the number of significant digits
2	in your answer is fewer than the number of boxes provided,	place a zero in the first box w	then number is 9 or less (e.g., 0 9).
1 = Spherical (L/W, L/T, and T/W ratios < 1.2) 2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2) 2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 4 = Elongate Flattened (L/W ratio > 1.2; T/W > 1.2)  2 = SEED COAT COLOR: (Mature Seed)  1	1. SEED SHAPE:	<b>O</b> ,	
1 = Spherical (L/W, L/T, and T/W ratios < 1.2) 2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2) 2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2) 4 = Elongate Flattened (L/W ratio > 1.2; T/W > 1.2)  2 = SEED COAT COLOR: (Mature Seed)  1			
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)  4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)  2. SEED COAT COLOR: (Mature Seed)  1  1 = Yellow  2 = Green  3 = Brown  4 = Black  5 = Other (Specify)  3. SEED COAT LUSTER: (Meture Hand Shelled Seed)  2  1 = Dull ('Corsoy 79'; 'Braxton')  2 = Shiny ('Nebsoy'; 'Gasoy 17')  4. SEED SIZE: (Mature Seed)  5. HILUM COLOR: (Mature Seed)  6  1 = Buff  2 = Yellow  3 = Brown  4 = Gray  5 = Imperfect Black  6 = Black  7 = Other (Specify)  7. SEED PROTEIN PEROXIDASE ACTIVITY:  1  1 = Low  2 = High  8. SEED PROTEIN ELECTROPHORETIC BAND:  1 = Type A (SP1 <sup>8</sup> )  2 = Type B (SP1 <sup>b</sup> )  9. HYPOCOTYL COLOR:  2  1 = Green only ('Evans'; 'Davis')  2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')  3 = Light Purple below cotyledons ('Beson'; 'Pickett 71')  4 - Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	L=J		(1 /W ratio > 1.2: 1 /T ratio = < 1.2)
1 1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Other (Specify)  3. SEED COAT LUSTER: (Mature Hand Shelfed Seed)  2 1 = Dull ('Corsov 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17')  4. SEED SIZE: (Mature Seed)  1 8 Grams per 100 seeds  5. HILUM COLOR: (Mature Seed)  6 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)  6. COTYLEDON COLOR: (Mature Seed)  1 1 = Yellow 2 = Green  7. SEED PROTEIN PEROXIDASE ACTIVITY:  1 1 = Low 2 = High  8. SEED PROTEIN PEROXIDASE ACTIVITY:  1 1 = Type A (Sp1 <sup>8</sup> ) 2 = Type B (Sp1 <sup>b</sup> )  9. HYPOCOTYL COLOR:  2 1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy') 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 7i1') 4 - Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:			
1 1 = Yellow 2 = Green 3 = Brown 4 = Black 5 = Other (Specify)  3. SEED COAT LUSTER: (Mature Hand Shelfed Seed)  2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy'; 'Gasoy 17')  4. SEED SIZE: (Mature Seed)  1 8 Grams per 100 seeds  5. HILUM COLOR: (Mature Seed)  6 1 = Buff 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)  6. COTYLEDON COLOR: (Mature Seed)  1 1 = Yellow 2 = Green  7. SEED PROTEIN PEROXIDASE ACTIVITY:  1 1 - Low 2 = High  8. SEED PROTEIN PEROXIDASE ACTIVITY:  1 1 = Type A (Sp1*) 2 = Type B (Sp1*)  9. HYPOCOTYL COLOR:  2 1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy') 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 7i1') 4 - Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	a arra course (the course of the course of t		
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)  2  1 = Dull ('Corsoy 79'; 'Braxton')  2 = Shiny ('Nebsoy'; 'Gasoy 17')  4. SEED SIZE: (Mature Seed)  1  8  Grams per 100 seeds  5. HILUM COLOR: (Mature Seed)  6  1 = Buff  2 = Yellow  3 = Brown  4 = Gray  5 = Imperfect Black  6 = Black  7 = Other (Spacify)  6. COTYLEDON COLOR: (Mature Seed)  1  1 = Yellow  2 = Green  7. SEED PROTEIN PEROXIDASE ACTIVITY:  1  1 = Low  2 = High  8. SEED PROTEIN ELECTROPHORETIC BAND:  1  = Type A (SP1*)  2 = Type B (SP1*)  9. HYPOCOTYL COLOR:  2  1 = Green only ('Evans'; 'Davis')  2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')  3 = Light Purple below cotyledons ('Besson'; 'Pickett 71')  4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	2. SEED COA! COLOR: (Mature Seed)		
2   1 = Dull ('Corsov 79'; 'Braxton')   2 = Shiny ('Nebsoy'; 'Gasov 17')    4. SEED SIZE: (Mature Seed)    5. HILUM COLOR: (Mature Seed)    6. COTYLEDON COLOR: (Mature Seed)    1   1 = Yellow   2 = Green    7. SEED PROTEIN PEROXIDASE ACTIVITY:    1   1 = Low   2 = High    8. SEED PROTEIN ELECTROPHORETIC BAND:    1 = Type A (SP1a)   2 = Type B (SP1b)    9. HYPOCOTYL COLOR:    2   1 = Green only ('Evans'; 'Davis')   2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')    3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')    4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')    10. LEAFLET SHAPE:	1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other	(Specify)
4. SEED SIZE: (Mature Seed)  5. HILUM COLOR: (Mature Seed)  6. 1 = Buff	3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
4. SEED SIZE: (Mature Seed)  5. HILUM COLOR: (Mature Seed)  6. 1 = Buff	2 1 = Dull ('Corsov 79': 'Braxton') 2 = Shiny ('Nebso	v': 'Gasov 17')	
5. HILUM COLOR: (Mature Seed)  6. Legan 2 = Yellow 3 = Brown 4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)  6. COTYLEDON COLOR: (Mature Seed)  1			
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6. COTYLEDON COLOR: (Mature Seed)  1	5. HILUM COLOR: (Mature Seed)		
6. COTYLEDON COLOR: (Mature Seed)  1	C 1 - P.// 2 - Vellan 2 - Brown	t = Grav	ack 6 = Black 7 = Other (Specify)
7. SEED PROTEIN PEROXIDASE ACTIVITY:  1	0 1 = Buff 2 - Fellow 3 - Brown	7 - Gray 5 - Imperiect bit	
7. SEED PROTEIN PEROXIDASE ACTIVITY:  1	6. COTYLEDON COLOR: (Mature Seed)		
7. SEED PROTEIN PEROXIDASE ACTIVITY:  1	1 1 - Valley 2 - Court		
1 = Low 2 = High  8. SEED PROTEIN ELECTROPHORETIC BAND:  1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )  9. HYPOCOTYL COLOR:  2   1 = Green only ('Evans'; 'Davis') 2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy') 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	1 = Yellow 2 = Green		
8. SEED PROTEIN ELECTROPHORETIC BAND:  1 = Type A (SP1 <sup>a</sup> )  2 = Type B (SP1 <sup>b</sup> )  9. HYPOCOTYL COLOR:  2   1 = Green only ('Evans'; 'Davis')  3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')  4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	7. SEED PROTEIN PEROXIDASE ACTIVITY:		
8. SEED PROTEIN ELECTROPHORETIC BAND:  1 = Type A (SP1 <sup>a</sup> )  2 = Type B (SP1 <sup>b</sup> )  9. HYPOCOTYL COLOR:  2   1 = Green only ('Evans'; 'Davis')  3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')  4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	1 1 = Low 2 = High		
9. HYPOCOTYL COLOR:  2 = Type B (SP1 <sup>b</sup> )  2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy') 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	I I - Low 2 - High		
9. HYPOCOTYL COLOR:  2   1 = Green only ('Evans'; 'Davis')   2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')   3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')   4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	8. SEED PROTEIN ELECTROPHORETIC BAND:		
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3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')  10. LEAFLET SHAPE:	9. HYPOCOTYL COLOR:		
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10. LEAFLET SHAPE:	3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')		
·	4 = Dark Purple extending to unifoliate leaves ('Hodgson';	'Coker Hampton 266A')	
2 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Specify)	10. LEAFLET SHAPE:		
	2 1 = Lanceolate 2 = Oval 3 = Ovate	4 = Other (Specify)	

11. LEAFLET SIZE:  2	
1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')  13. FLOWER COLOR:  1	
14. POD COLOR:  1	
15. PLANT PUBESCENCE COLOR:  2	
2 1 = Gray 2 = Brown (Tawny)  16. PLANT TYPES:  2 1 = Slender ('Essex'; 'Amsoy 71') 2 = Intermediate ('Amcor'; 'Braxton') 3 = Bushy ('Gnome'; 'Govan')  17. PLANT HABIT:  1 = Determinate ('Gnome'; 'Braxton') 2 = Semi-Determinate ('Will') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')  18. MATURITY GROUP:  0 8 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V	
2 = Intermediate ('Amcor'; 'Braxton')  17. PLANT HABIT:  1 = Determinate ('Gnome'; 'Braxton')  2 = Semi-Determinate ('Will')  18. MATURITY GROUP:  0 8 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V	
1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican')  18. MATURITY GROUP:  0 8 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V	
0 8 1 = 000 2 = 00 3 = 0 4 = I 5 = II 6 = III 7 = IV 8 = V	
19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)  BACTERIAL DISEASES:  Bacterial Pustule (Xanthomonas phaseoli var. sojensis)  Bacterial Blight (Pseudomonas glycinea)  Wildfire (Pseudomonas tabaci)	
FUNGAL DISEASES:  O Brown Spot (Septoria glycines)  Frogeye Leaf Spot (Cercospora sojina)  O Race 1 O Race 2 O Race 3 O Race 4 O Race 5 Other (Specify)  Target Spot (Coppessora cassicola)	

19.	DISEA	ASE REACTIO	N: (Enter 0 = Not T	ested; 1 = Susceptible; 2 =	Resistant) (Continued)		
•	FUN	NGAL DISEAS	SES: (Continued)				•
	0	Pod and Ste	m Blight <i>(Diaporthe</i>	phaseolorum var; sojae)			
	0	Purple Seed	Stain (Cercospora k	kuchii)			
	0	Rhizoctonia	Root Rot (Rhizocto	onia solani)			. •
-		Phytophtho	ra Rot (Phytophthor	a megasperma var. sojae)	•		\$ -
	1	Race 1	1 Race 2	0 Race 3 0	Race 4 0 Race	5 0 Race 6	0 Race 7
	0	Race 8	0 Race 9	Other (Specify)			
	VIR	AL DISEASES	:				
	0	Bud Blight (	Tobacco Ringspot V	irus)			
	0	Yellow Mosa	aic (Bean Yellow Mos	aic Virus)			
	0	Cowpea Mos	aic (Cowpea Chlorot	ic Virus)			
	0	Pod Mottle (	Bean Pod Mottle Vir	us)		·	
	0	Seed Mottle	(Soybean Mosaic Vir	us)			
	NEM	ATODE DISE.	ASES:				
		Soybean Cys	t Nematode (Hetero	dera glycines)			
	0	Race 1	0 Race 2	1 Race 3 1	Race 4 0 Other	(Specify)	
	0	Lance Nema	tode (Hoplolaimus C	olombus)		<b>.</b>	
		Southern Ro	ot Knot Nematode (i	Meloidogyne incognita)			
	0	Northern Ro	ot Knot Nematode (/	Meloidogyne Hapla)			
		Peanut Root	Knot Nematode (Me	loidogyne arenaria)			
	0	Reniform Ne	matode ( <i>Rotylenchu</i>	lus reniformis)			
		OTHER DISE	EASE NOT ON FOR	M (Specify):			
		······					
O. F	HYSIO			= Not Tested; 1 = Suscep	tible; 2 = Resistant)		
		Iron Chlorosis	s on Calcareous Soil			:	
		Other (Specif	y)				
1. 1	_	REACTION:	(Enter 0 = Not Test	ed; 1 = Susceptible; 2 = Re	sistant)		
		Mexican Bean	Beetle (Epilachna va	nrivestis)			
		Potato Leaf H	lopper ( <i>Empoasca fai</i>	bae)			
		Other (Specify	//				
2. 11	VDICAT	TE WHICH VA	RIETY MOST CLO	SELY RESEMBLES THA	F SUBMITTED.		· · · · · · · · · · · · · · · · · · ·
	CHAR	ACTER	NAME	OF VARIETY	CHARACTER	NAME C	F VARIETY
PI	ant Sha	ре	A5980		Seed Coat Luster	A5980	
Le	af Shap	oe	A5980		Seed Size	A5980	
	af Colo	or	A5980		Seed Shape	A5980	
Le	af Size		A5980		Seedling Pigmentation	A5980	· · · · · · · · · · · · · · · · · · ·
			r		7	1	

### 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Length	% Protein	% Qil	SEEDS	POD
9592 Submitted	138	2.6	98			,		18.0	
A5980 Name of Similar Variety	134	3.4	103		·			14.8	

### PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

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- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.